

Comparisons of Job Characteristics

Focus Occupation: [Computer Systems Analysts \(15-1051\)](#)

Associated Occupation: [Database Administrators \(15-1061\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Computer Systems Analysts (15-1051)
Associated Occupation: Database Administrators (15-1061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	19.9	19.3	0	Current knowledge level may be sufficient
Customer and Personal Service	11.3	14.2	15.4	0	Current knowledge level may be sufficient
Clerical	7.3	10.9	11.8	0	Current knowledge level may be sufficient
Communications and Media	5.3	8.0	7.7	0	Current knowledge level may be sufficient
Telecommunications	3.9	7.3	6.8	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Computer Systems Analysts (15-1051)
Associated Occupation: Database Administrators (15-1061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Systems Analysis	6.5	10.6	12.6	>	Skill level is likely sufficient
Systems Evaluation	6.4	10.4	12.7	>	Skill level is likely sufficient
Programming	2.2	9.9	10.2	0	Current skill level may be sufficient
Operations Analysis	5.0	9.6	10.6	>	Skill level is likely sufficient
Technology Design	2.6	6.1	9.7	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 99

Focus Occupation: Computer Systems Analysts (15-1051)
Associated Occupation: Database Administrators (15-1061)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Information Ordering	9.9	12.3	12.9	0	Current ability level may be sufficient
Category Flexibility	9.0	11.0	11.8	0	Current ability level may be sufficient
Flexibility of Closure	7.8	10.1	10.4	0	Current ability level may be sufficient
Fluency of Ideas	7.6	9.9	12.7	>>	Current ability level is likely more than sufficient
Originality	7.6	9.8	11.6	>	Current ability level is likely sufficient
Selective Attention	8.7	9.8	9.9	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	9.7	10.3	0	Current ability level may be sufficient
Number Facility	6.3	8.9	9.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Computer Systems Analysts (15-1051)
Associated Occupation: Database Administrators (15-1061)

Work Activities	Exclusivity of Activity
Adjust computer operation system	84
Analyze programs using workflow chart or diagram	99
Communicate technical information	4
Design data security systems	89
Develop mathematical simulation models	70
Develop or maintain databases	30
Develop records management system	76
Develop tables depicting data	33
Evaluate computer system user requests or requirements	81
Follow data security procedures	77
Follow data storage procedures	75
Implement computer system changes	92
Install computer programs	89
Maintain client-server database	89
Maintain or repair computers or related equipment	81
Monitor computer operation	85
Operate computer networks	92
Program mainframe computer	84
Provide technical computer training	82
Provide technical support to computer users	80

Revise or correct errors in computer programs, software, or systems	85
Test computer programs or systems	78
Use computer application flow charts	84
Use computer networking technology	81
Use computer programming language	82
Use computers to enter, access or retrieve data	3
Use geographical information system (GIS) software	72
Use interpersonal communication techniques	10
Use knowledge of mainframe computers	78
Use object-oriented computer programming techniques	85
Use project management techniques	47
Use relational database software	26
Use spreadsheet software	18
Use structural analysis techniques to analyze computer systems	89
Write computer software, programs, or code	84
Write documentation for computer programming	87

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 93

Focus Occupation: Computer Systems Analysts (15-1051)
Associated Occupation: Database Administrators (15-1061)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Educational or reference software	12
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Network applications software	1
Networking software	21
Operating environment software	12
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.